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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/583,990	06/22/2006	Naoki Tomoguchi	062622	7351
38834 7590 11/07/2008 WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 CONNECTICUT AVENUE, NW			EXAMINER	
			HON, SOW FUN	
SUITE 700 WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER
			1794	
			MAIL DATE	DELIVERY MODE
			11/07/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/583,990	TOMOGUCHI ET AL.	
Office Action Summary	Examiner	Art Unit	
	SOPHIE HON	1794	
The MAILING DATE of this communication appeariod for Reply	ppears on the cover sheet with th	e correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATI 1.136(a). In no event, however, may a reply be d will apply and will expire SIX (6) MONTHS for the, cause the application to become ABANDO	ON. e timely filed rom the mailing date of this communication. DNED (35 U.S.C. § 133).	
Status			
1) ☐ Responsive to communication(s) filed on 6/2 2a) ☐ This action is FINAL . 2b) ☐ Th 3) ☐ Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal matters,		
Disposition of Claims			
4) ☐ Claim(s) 1 and 3-11 is/are pending in the approach 4a) Of the above claim(s) 5 is/are withdrawn 5. ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,3-4, 6-11 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and formation and form	from consideration. /or election requirement.		
10) The drawing(s) filed on is/are: a) according to a deplicant may not request that any objection to the Replacement drawing sheet(s) including the correct of the oath or declaration is objected to by the E	ccepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list 	nts have been received. nts have been received in Applic iority documents have been rece au (PCT Rule 17.2(a)).	eation No vived in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summ Paper No(s)/Mai 5) Notice of Informa 6) Other:		

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DETAILED ACTION

Election/Restrictions

1. Claim 5 is withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 6/26/08.

Response to Amendment

Withdrawn Rejections

- 2. The objections to claims 1-4, 6-9 are withdrawn due to Applicant's amendment dated 6/26/08.
- 3. The 35 U.S.C. 102(b) and 103(a) rejections of claims 1-4, 6, 8-9 are withdrawn due to Applicant's amendment dated 6/26/08.

New Rejections

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

4. Claims 1, 3-4, 6, 8-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saiki (US 2002/0075428) in view of Brill (US 3,017,282).

Regarding claims 1, 3-4, Saiki teaches an adhesive containing a polyvinyl alcohol-based resin having an acetoacetyl group and a crosslinking agent which has to be water soluble ([0035]) since the adhesive is an aqueous solution ([0042]). Saiki

teaches that an acid is added to the aqueous solution as the crosslinking agent for the polyvinyl alcohol-based resin ([0035]), but fails to disclose the pH of the aqueous solution, let alone one that is in the specific range of from 2.2 to 4.3.

However, Brill teaches that acid-containing aqueous solutions with a pH in the range of between 2.5 and 4.5 (column 1, lines 50-55), which contains the claimed range of 2.2 to 4.3, are useful in the preparation of surface coatings for the purpose of conditioning a surface for adhesion with other materials (column 1, lines 50-60), and not just to crosslink polyhydroxy compounds (column 1, lines 55-60) of which polyvinyl alcohol is a species.

Therefore, since Saiki is silent regarding the acidity and hence pH of the aqueous solution, it would haven been necessary and hence obvious to have looked to the prior art for suitable values. As such, it would have been obvious to one of ordinary skill in the art at the time the invention was made, to have provided the aqueous adhesive solution of Saiki with a pH that is in the range of from 2.2 to 4.3, in order to condition the surface of the material for adhesion with other materials as well as to crosslink the polyvinyl alcohol in the adhesive, as taught by Brill.

In addition, Saiki teaches that the adhesive is used for forming an adhesive layer (layer of adhesive made of a vinyl alcohol-based polymer, [0031]) in a polarizing plate in which a polarizer and a transparent protective film are adhering with each other via the adhesive layer, wherein the polarizer is a polyvinyl alcohol-based polarizer (polarizing film, [0031]). It is noted that these features are intended use ones, and thus not positively recited.

Regarding claim 6, Saiki teaches a polarizing plate comprising a polarizer and a transparent protective film which is provided on at least one surface of the polarizer via the adhesive layer (adhered to one side or both sides, [0031]) described above.

Regarding claim 8, Saiki teaches an optical film comprising at least one polarizing plate (polarizer used as an optical member that is laminated onto another optical layer, [0043]), wherein the polarizing plate is the one described above.

Regarding claim 9, Saiki teaches an image display comprising the polarizing plate described above (liquid crystal display, [0065]).

Regarding claims 10-11, Saiki fails to teach that the acid is an organic acid, let alone acetic acid.

However, Brill teaches that an organic acid such as acetic acid can be used in lieu of an inorganic acid (column 1, lines 65-70) for the purpose of providing the desired priming of the surface of the material for adhesion to other materials and the desired crosslinking of the polyhydroxy compound (column 1, lines 50-60) of which polyvinyl alcohol is a species.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made, to have used an organic acid such as acetic acid in lieu of the inorganic acid in the aqueous adhesive solution of Saiki, in order to obtain the desired priming of the surface of the polarizer and/or the protective film for better adhesion to each other as well as the desired subsequent crosslinking of the polyvinyl alcohol in the adhesive layer, as taught by Brill.

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5. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Saiki in view of Brill as applied to claims 1, 3-4, 6, 8-11 above, and further in view of Sugino (US 2003/0137732).

Saiki, as modified by Brill, teaches the polyvinyl alcohol-based adhesive layer for polarizing plates described above. Saiki is silent regarding the thickness of the adhesive layer.

However, Sugino teaches that a polyvinyl alcohol-based adhesive layer for a polarizing plate (polarizer can be bonded to the transparent protective layer, PVA-based adhesive, [0076], polarizing plate, [0077]), more preferably has a thickness from 20 nm to 100 nm ([0076]), which is within the claimed range of from 30 to 300 nm, for the purpose of providing the desired balance of adhesion and minimal optical interference to the polarizing plate.

Therefore, since Saiki is silent regarding the thickness of the adhesive layer, it would have been necessary and hence obvious to have looked to the prior art for suitable values. As such, it would have been obvious to one of ordinary skill in the art at the time the invention was made, to have provided the polyvinyl alcohol-based adhesive layer adhering the polarizer and the transparent protective film of Saiki, with a thickness that is within the range of from 30 to 300 nm taught by Sugino, in order to obtain the desired balance of adhesion and minimal optical interference to the polarizing plate.

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Response to Arguments

6. Applicant's arguments have been considered but are moot in view of the new

ground(s) of rejection.

Any inquiry concerning this communication should be directed to Sow-Fun Hon

whose telephone number (571)272-1492. The examiner can normally be reached

Monday to Friday from 10:00 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Keith Hendricks, can be reached on (571)272-1401. The fax phone number

for the organization where this application or proceeding is assigned is (571)273-8300.

Information regarding the status of an application may be obtained from the Patent

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|Sophie Hon|

Sow-Fun Hon

Examiner, Art Unit 1794